

Serial No. 10/023,238

Page 2

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) Robot rack loading apparatus for temporary rack storage of panel assemblies, said apparatus comprising:
 - a rack for storage of multiple assemblies, the rack including side and bottom dunnage including slots for receiving individual assemblies in separate sets of said slots and a sensing hole adjacent one of the slots of each set;
 - a robot end of arm tool mountable on a robot arm and adapted for sequentially carrying individual assemblies for loading into the rack, said tool including a first sensor for sensing the sensing hole indicating the proper location of the robot arm for loading the component into the associated set of slots; and
 - a compliant support between the robot arm and the tool and allowing limited compliant positioning of the tool by the component to allow low stress self-adjustment of the component position during loading of the component into the slots of the selected set.
2. (original) Apparatus as in claim 1 wherein the compliant support includes a lock for fixing the position of the compliant support for loading pickup and carrying of assemblies by the tool prior to loading of the assemblies into the rack.
3. (original) Apparatus as in claim 1 wherein the slots in the side dunnage include lead-in angles around the upper peripheries of the slots to guide the assemblies into their proper positions upon insertion into the slots.
4. (original) Apparatus as in claim 1 including a second sensor on said tool for sensing an object limiting forward travel of the tool to indicate a preload position of the tool.
5. cancelled.

Serial No. 10/023,238

Page 3

6. cancelled.

7. cancelled.

8. cancelled.

9. cancelled.

A